With the Medical Officer's Compliments.

THE 16th

ANNUAL REPORT

ON THE

Health & Sanitary Condition

OF THE

TOWN AND URBAN DISTRICT

OF

NEWQUAY

FOR 1904,

TOGETHER WITH THE

ANNUAL REPORT

OF THE

Meteorological Observations.

Printed by Order of the Urban District Council.

ST. COLUMB:
Printed by Alfred E. Julian, Market Place.

Digitized by the Internet Archive
in 2018 with funding from
Wellcome Library

https://archive.org/details/b29908553

Newquay Urban District.

Area ... 903½ acres. Population { 1901 Census 3115.
1904 Estimate 3450.

16th Annual Report

OF THE

Medical Officer of Health

FOR 1904.

To the Chairman and Members of the Newquay Urban District Council.

Gentlemen,

I beg to submit to you my Sixteenth Annual Report on the Health and Sanitary condition of Newquay during the year 1904.

The past year has again been a very healthy one, the town having been practically free throughout the year from all Infectious Diseases.

The Isolation Hospital has remained closed for the entire year.

I have again drawn special attention in my report to the necessity for definite action in respect to the Eastern Drainage Question and the Gannel Outfall, these being the most pressing matters requiring the attention of your Council.

I am, Gentlemen,

Yours faithfully,

ARTHUR HARDWICK.

Area and Population.

The total area of the District is 903½ acres.

The population at the 1901 census was 3115, and the present estimated population (to the middle of 1904) is 3450.

The total number of inhabited houses at the end of the year was 870, uninhabited houses 8, lock-up shops and premises 30, and houses in course of erection 21. The average number of persons per house is 4.

Mortality.

The total number of deaths was 37, viz. : 19 males and 18 females. Of these 4 were non-residents or visitors. Estimating the population at 3450, the total death rate was 10·7 per 1000 per annum. Deducting the deaths of non-residents, the true death rate of the resident population was 9·5 per 1000. The average death-rate for the previous 10 years including all deaths was 12·8 per 1000.

The chief causes of death were as follows :

Phthisis	2	Premature Births ...	5
Heart Diseases ...	5	Senile Decay ...	7
Respiratory ..	3	Nervous Diseases ...	3
Cancer ...	1	All other causes ...	11

The ages at death were as follows :—

Under 1 year	8
1 and under 5	0
5 and under 15	1
15 and under 25	2
25 and under 65	11
65 and over	15

8 deaths occurred at 80 and over, viz :—2 at 80, 1 each at 82, 83 and 84 ; 2 at 87, and 1 at 88.

Infantile Mortality.

8 deaths occurred under 1 year, 5 of which were due to premature birth.

The Infantile Mortality or proportion of deaths under 1 year per 1000 births was equal to 121 per 1000.

Zymotic Death Rate.

No deaths occurred from Zymotic disease during the year, the Zymotic Death Rate therefore being nil.

Births.

66 Births were registered, viz. :—38 Males and 28 females, equal to a Birth-rate of 19·0 per 1000 of the estimated population.

The average number of Births for the previous 10 years was 56, and the average birth-rate 22·0 per 1000.

Zymotic Diseases.

Only 3 cases of Infectious Disease were notified for the whole year, this being the smallest number recorded in any year since the adoption of the Notification Act.

The cases notified were—

Puerperal Fever ...	1
Erysipelas ...	1
Measles ...	1

The latter was an imported case from Plymouth. During 10 months of the year the town has been totally free from all infectious disease.

Isolation Hospital.

For the first time since its erection, the Hospital has been entirely closed throughout the year, no cases of Infectious Disease requiring removal having occurred in the district.

During the past year the Hospital has been thoroughly cleansed internally and repainted. No provision has been made however, for a Disinfecting Chamber. The addition of this would complete the equipment of the Hospital, and add greatly to our resources for successfully combating the spreading of Infectious Diseases.

Drainage and Sewage Disposal.

The Total amount spent on Drainage and Sewage disposal was £167 10s. 4d., and for Scavenging £74 1s. 6d.

The Cess-pits on Trenance Hill, reported upon last year have since been abolished. A new drain has been constructed, to which all the houses formerly dependent upon cess-pits have been connected, the drain being carried out over Trenance Hill to join the existing Sewer opening into the Gannel.

During the past year, the whole of the Sewer Ventilators, 35 in number, have been thoroughly examined, and all defective ones put in good order.

Eastern Drainage Outfall.

For the seventh year in succession, I have again to report that nothing of a practical nature has been done to remedy the existing nuisance at the Gannel outfall, or to provide a satisfactory drainage system for the Eastern end of the district.

In view of the great importance of this matter and to emphasize the necessity for some definite action being taken by your Council to carry out one or other of the various Drainage Schemes which have been proposed from time to time, I beg to draw your Council's attention to the following extracts from my Annual Reports during the past few years.

In my Annual Report for 1900, I reported as follows :—

> "Nothing has been done to improve the outfall at the East end of the district. The Septic Tank System, which was recommended last year for adoption, and approved of by your Council, and for which plans and estimates were submitted recently, has not been carried out, and it has been decided to lengthen the present outfall, by carrying the pipes lower down for a distance of 100 yards, with the object of removing or diminishing some of the sources of the objectionable features at present complained of."

> "It is evident, however, that this can only be a temporary expedient, as the increasing population in the drainage area affected, and the greatly augmented quantity of sewage that passes by the Gannel outfall in the summer months, renders it imperative that some definite steps should be taken—and at no distant date—to remedy the existing state of affairs, either by a modification of the Septic Tank System, or by a comprehensive Scheme of Drainage, which shall provide, not only for the present and increasing need of this portion of the town, but also for the enlarged area, which the proposed Extension Scheme will include in your district."

In 1901, I reported as follows :

> "The improvement and enlargement of the main drainage system for the East end of the town, which has been long under consideration, is an important matter, and I would urge upon your Council the necessity for dealing with this matter in a liberal and comprehensive manner, looking rather to the future extension of the town, than attemping to provide only for the immediate exigencies of the case."

> "Nothing definite has yet been decided upon as regards the Gannel outfall, various schemes having been suggested and discussed, but none adopted."

In 1902 I reported—

> "Of matters still requiring attention, the abatement of the Nuisance caused by the discharge of sewage into the Gannel Estuary is the most important, and I would press upon your Council the urgent necessity of immediate and decisive action in dealing with this question as a matter of Public Health, and one of vital importance to Newquay as a Health Resort."

And last year, 1903, as follows—

> "I have again to report that practically nothing has been done during the past year towards remedying the nuisance caused by the Sewage Outfall in the Gannel. It is with feelings almost of dispair, that I again urge upon your Council the absolute necessity of some decisive action being taken in this matter. Every summer brings with it an aggravation of the nuisance and danger, and now that the Trenance Valley is included in your District, there should be no longer any hesitation or delay in deciding upon a definite Drainage Scheme, and so removing what threatens to become a permanent scandal and reproach to the reputation of Newquay as a Health Resort."

It is unnecessary to add to these Reports, further than to say that what was considered of urgent importance in 1899, must be of still greater urgency in 1905, in view of the increase of houses and population at the East end of the District, and the increasing number of visitors and invalids yearly resorting to Newquay.

I trust your Council will be convinced of the necessity for prompt and decisive action in this matter, and that the present year will see a definite scheme of Drainage approved and passed and the work commenced.

Housing of the Working Classes Act.

No cases have arisen during the past year requiring to be dealt with under the above act.

Slaughter Houses, Cowsheds and Dairies.

No complaints have been received or Nuisances reported in connection with the above.

The registered Slaughter-houses have been regularly inspected and found in good order.

Copies of the regulations affecting the same have been printed and supplied to each owner.

One unregistered Slaughter-house was condemned as unfit for use and closed.

Public Lavatories.

These have been inspected regularly and found clean and in Sanitary condition.

Factory and Workshops Act.

No special action has been required to be taken under the above act during the past year.

The Workshops, Laundry and Bakeries have been inspected and minor defects where found, have been reported by your Inspector and notices given to the owners to remedy the same.

A Tabular Report, in accordance with the requirements of the Secretary of State, is appended to the Report.

Water Supply.

The Water Supply has been abundant and of good quality during the past year.

Practically all the houses in the district have now an available Water Supply.

Quarterly Analyses of the Water are made and reported to your Council. These reports, during the past year, having been all highly favorable.

Annexed are the Reports for June and November.

London, June 7th, 1904.

Dear Sir,

I beg to state that I have analysed the sample of Water received from you on the 6th instant, and find that it contains as under, viz. :—

Town Water.

Chlorine		2·35	grains per gallon.
Nitrogen (in Nitrates ...		·052	,, ,,
Ammonia, free		·0042	,, ,,
Ammonia, Albumenoid ...		·0030	,, ,,
Oxygen absorbed from Permanganate at 80° F	in 15 min.	·007	,, ,,
	in 4 hours	·015	,, ,,
Total Solid Matters in solution		9·6	,, ,,
Solid Matters reduced by ignition to		7·4	,, ,,
Poisonous Metals		Nil.	

Hardnesss	2½ degrees
Appearance in 2 ft. tube	Good color and clear.

The analysis shows that this water continues to be of first-class quality.

(Signed) BENEDICT, KITTO,
Public Analyst for the County of Cornwall.

John Ennor, Jr., Esq.

21st November, 1904.

To John Ennor, Jr., Esq.,
Newquay.

Sir,

I beg to state that I have analysed the sample of Water received from you on the 19th instant. and find that it contains as under viz. :—

Town Water.

Chlorine	5·1	grains per gallon.
Nitrogen (in Nitrates)	·017	„
Ammonia, free	·0038	„
Ammonia, Albumenoid	·0034	„
Oxygen absorbed from Permanganate at 80° F in 15 min.	·0014	„
in 4 hrs.	·0099	„
Total Solid Matters in solution	35·6	„
Solid Matters reduced by ignition to	28·8	„
Poisonous Metals	absent	
Hardness	9½ degrees	
Appearance in 2 ft. tube	Good colour and clear	

The good condition of this water is maintained. I consider it a high-class drinking water.

BENEDICT KITTO.

Bye-Laws, Reports, &c.

The new Bye-laws adopted by your Council came into force on January 1st, 1904. They are as follows, viz. :—with respect to

1. New Streets and Buildings.
2. Nuisances.
3. Slaughter Houses.
4. Cleansing of Footways and Pavements.
5. Decent Conduct of Persons using Sanitary Conveniences.
6. Tents, Vans, Sheds, and similar Structures used for Human Habitation.
7. Regulations with respect to Dairies, Cowsheds and Milkshops.

Regular Reports have been sent to your Council throughout the year, and Monthly Reports to the County Council and Returns of Mortality and Sickness.

No Special Report has been called for during the year.

Tables I, III, and IV are appended to my report as required by the Local Government Board, also a Tabular Report, re the Factory and Workshop Act.

Sanitary Inspector's Work.

1904.

Number of	Workshops and Factories visited under the Factories and Workshops Act	40
,,	Complaints attended to	11
,,	Houses newly connected with Main Drainage	17
,,	,, newly supplied with Water	34
,,	Sanitary Certificates granted after Inspection	13
,,	Nuisances abated	51
,,	Samples of Water taken for Analysis... ...	6
,,	Defective House Drains Tested and put in order	10
,,	Rooms Disinfected and Fumigated	2
,,	Houses Repaired and Limewashed	2
,,	New Houses Certificated for Occupation ...	13
,,	Plans presented for New Houses, &c. ...	24
,,	Loads of House Refuse removed, and general Scavenging	1800

JOHN ENNOR, Junr.,

Inspector.

Causes of, and Ages at, Death during Year 1904.

Causes of Death.	Deaths in or belonging to whole District Subjoined ages.						
	All ages.	Under 1 year.	1 and under 5.	5 and under 15.	15 and under 25.	25 and under 65.	65 and upwards.
Enteritis	1	1					
Puerperal Fever	1					1	
Phthisis	2				1	1	
Cancer malignant disease	1					1	
Bronchitis	1						1
Pleurisy	2			1		1	
Premature Birth	5	5					
Heart Diseases	5					3	2
Accidents	1				1		
Senile Decay	7						7
All other causes	11	2				4	5
All causes	37	8		1	2	11	15

Cases of Infectious Disease notified during the Year 1904.

	5 to 15 Years.	25 to 65 Years.
Erysipelas		1
Puerperal Fever		1
Measles	1	
Totals ...	1	2

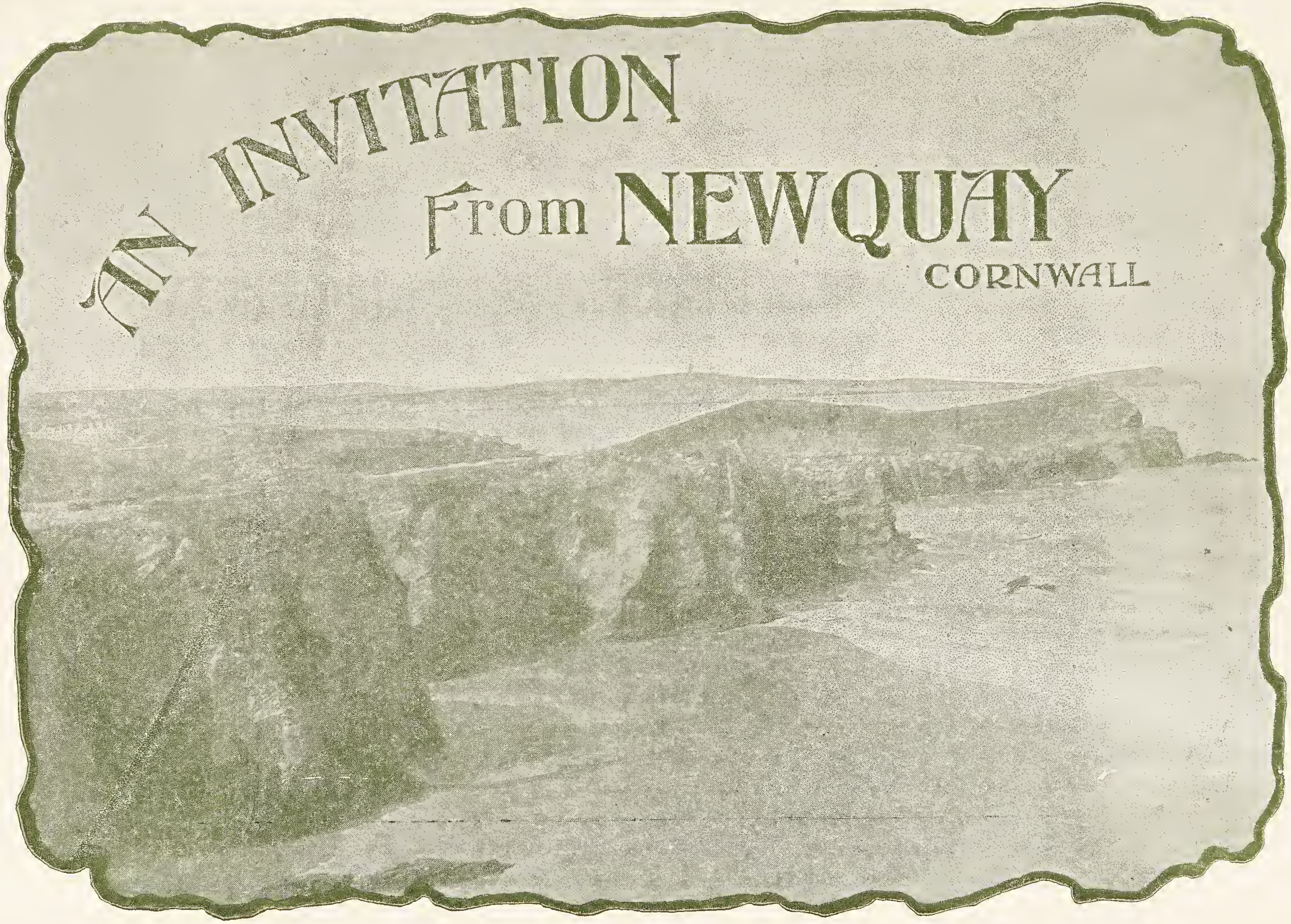
ISOLATION HOSPITAL :—Trevenson, St. Columb Minor.

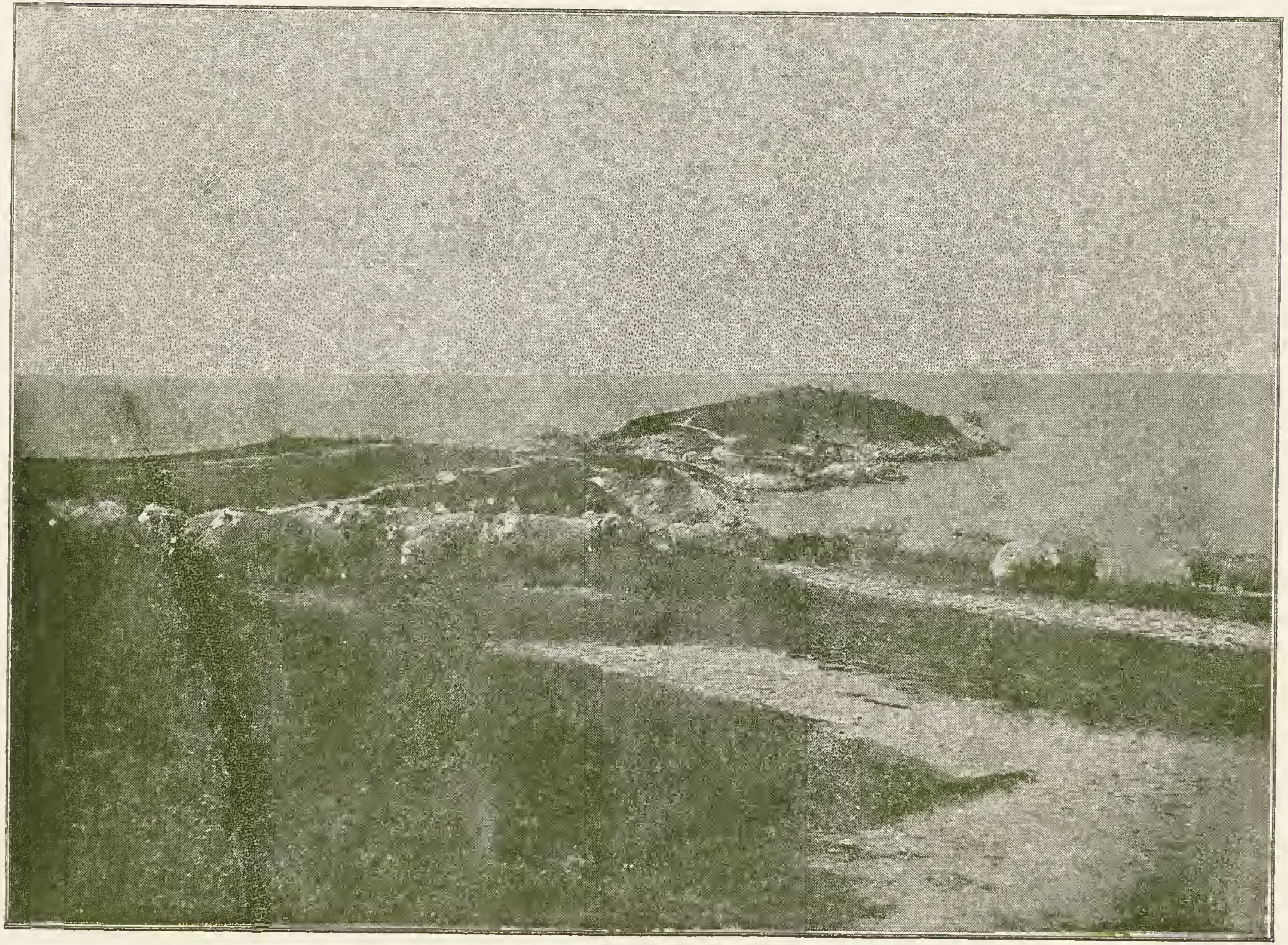
Vital Statistics of whole District during 1904 and Previous Years.

YEAR.	Population estimated to Middle of each Year.	BIRTHS.		TOTAL DEATHS REGISTERED IN THE DISTRICT.			
				Under 1 Year of Age.		At all Ages.	
		Number.	Rate.	Number.	Rate per 1,000 Births Registered.	Number.	Rate.
1	2	3	4	5.	6	7	8
1894.	2050	41	20·0	0	0·0	23	11·2
1895.	2120	36	17·0	6	166·6	32	15·1
1896.	2200	59	26·8	5	84·7	38	17·2
1897.	2300	68	29·5	9	132·3	25	10·8
1898.	2420	48	19·8	8	166·6	40	16·5
1899.	2580	68	26·3	7	103·0	35	13·5
1900.	2760	68	24·6	5	73·5	27	9·7
1901.	2950	61	20·6	7	114·7	41	13·9
1902.	3250	72	22·1	7	97·2	46	14·1
1903.	3300	45	13·6	1	22·2	25	7·6
Averages for years 1894-1903.	2593	56	22·0	5·5	96·0	33	12·8
1904.	3450	66	19·0	8	121·0	37	10·7

Area of District in Acres (exclusive of area covered by water) 903½

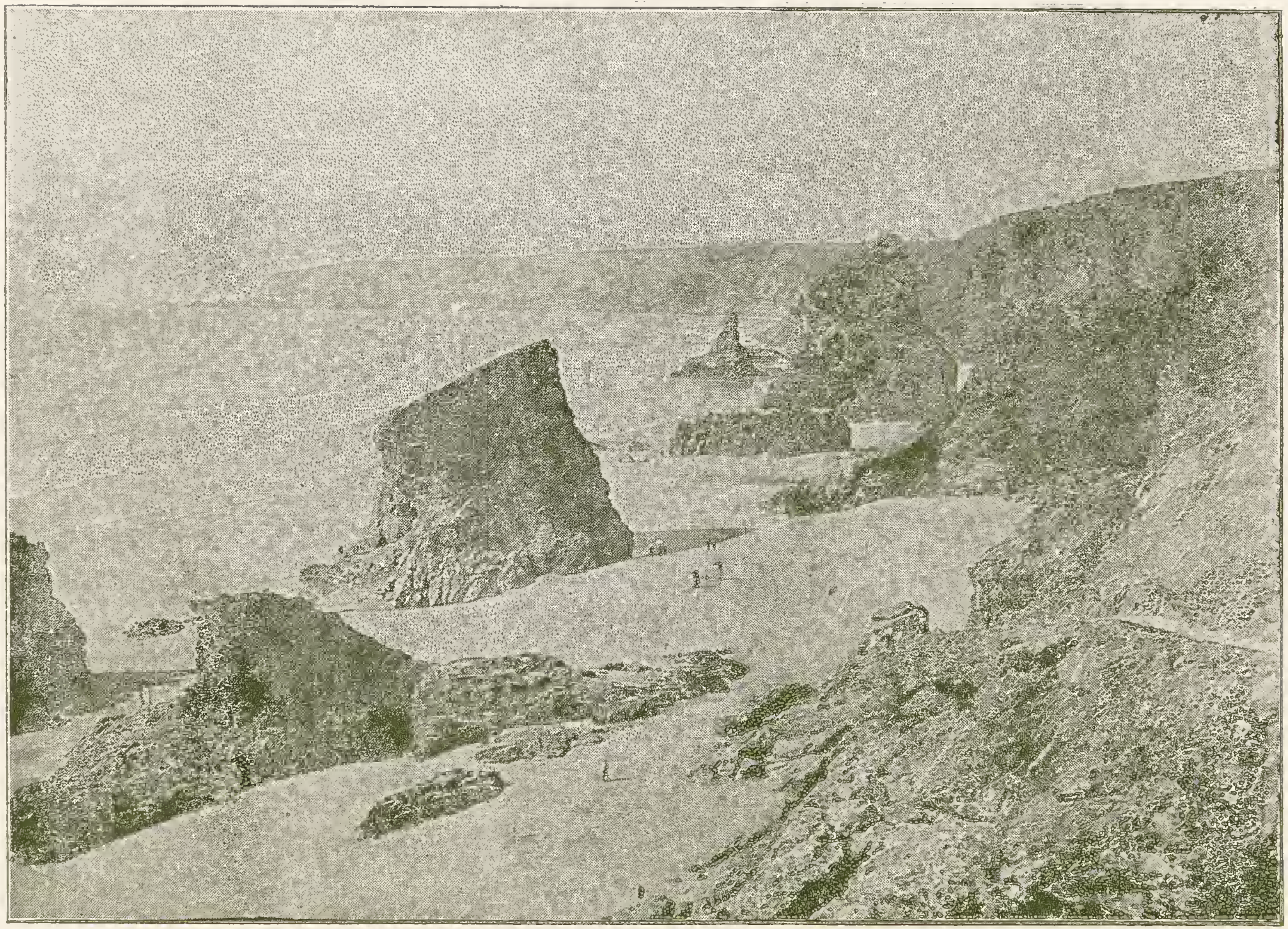
Total Population at all Ages, 3,115
Number of Inhabited Houses, 653
Average Number of Persons per House 4·5
At Census of 1901.


AN INVITATION
From NEWQUAY
CORNWALL



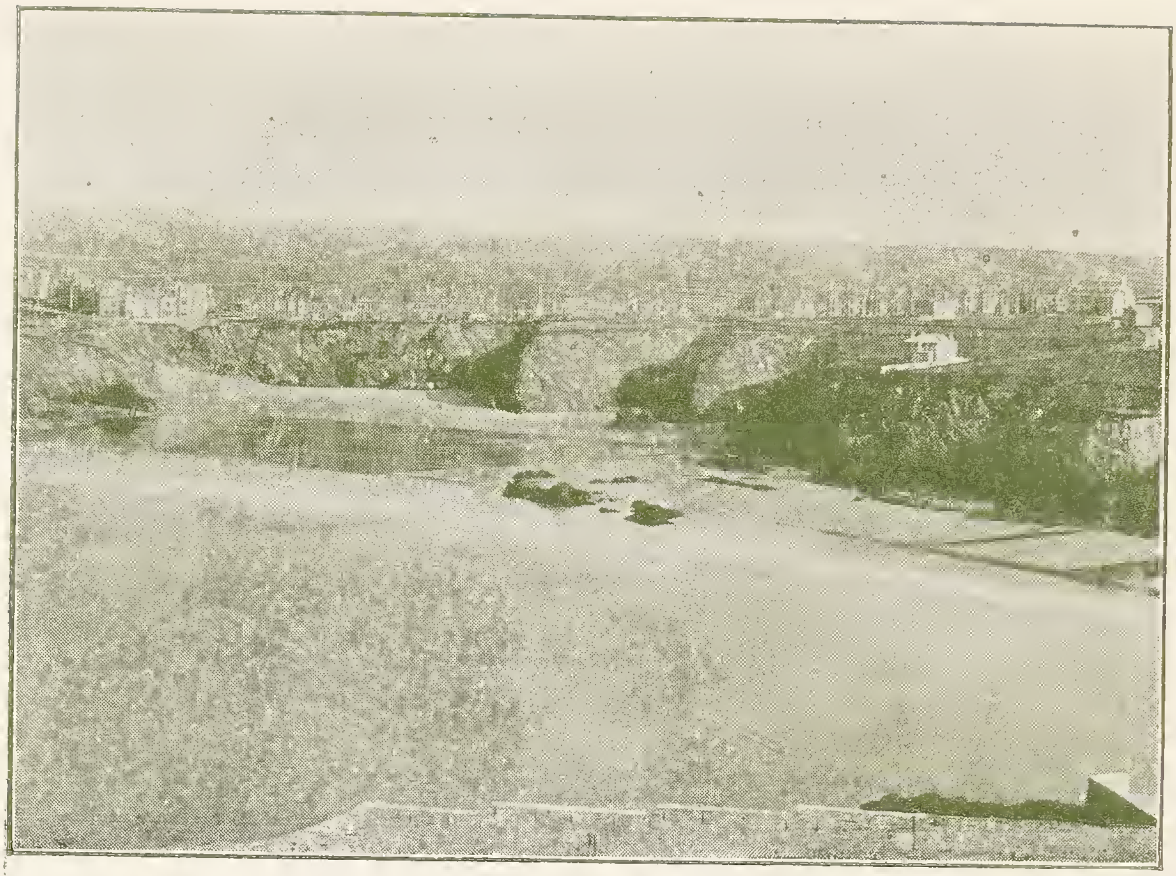
THE HEADLAND, NEWQUAY.

PORTH CLIFFS.

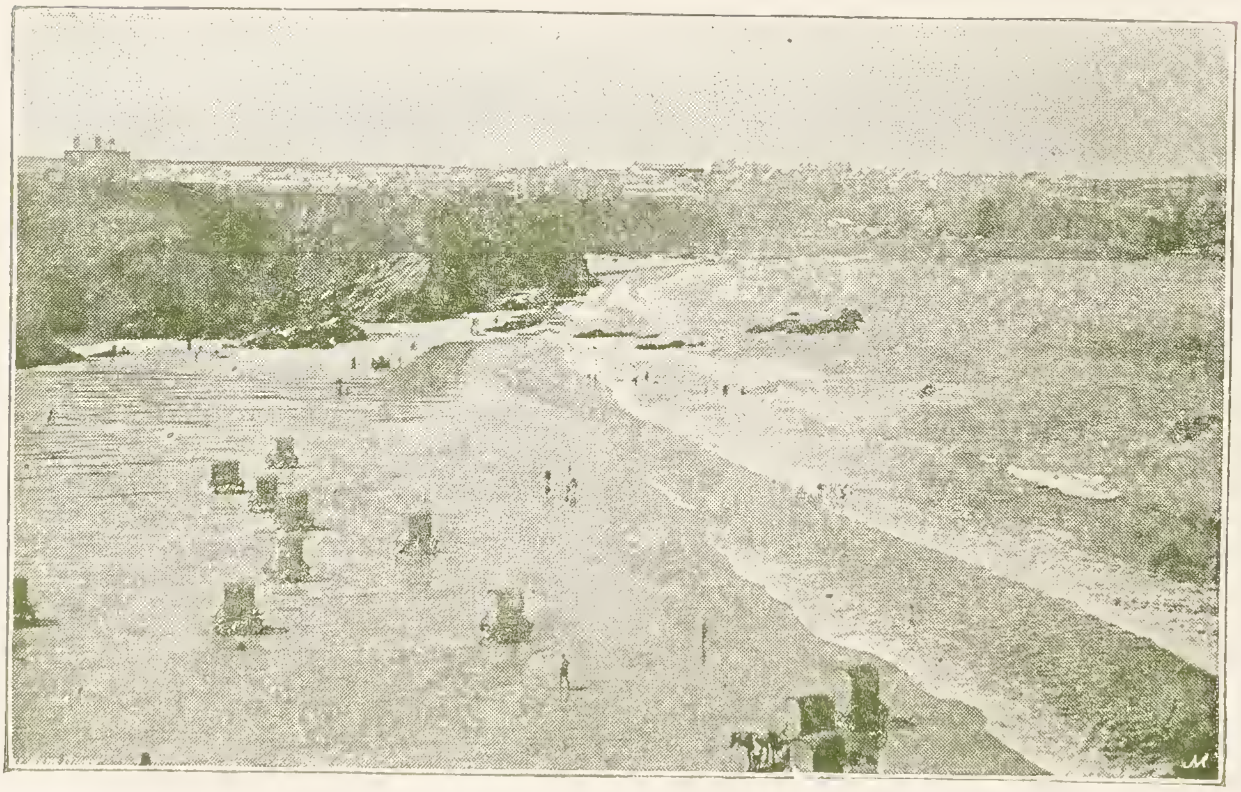


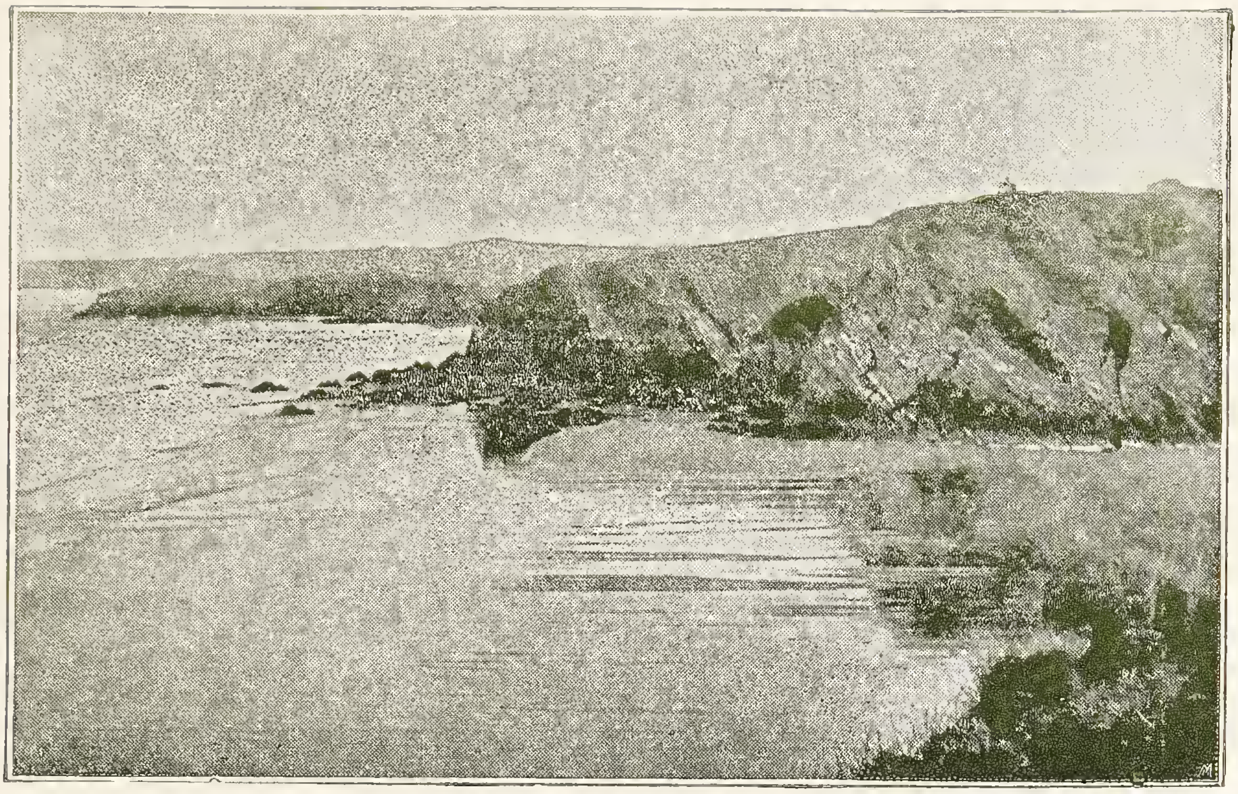
BEDRUTHAN STEPS.

VALE OF LANHERNE.

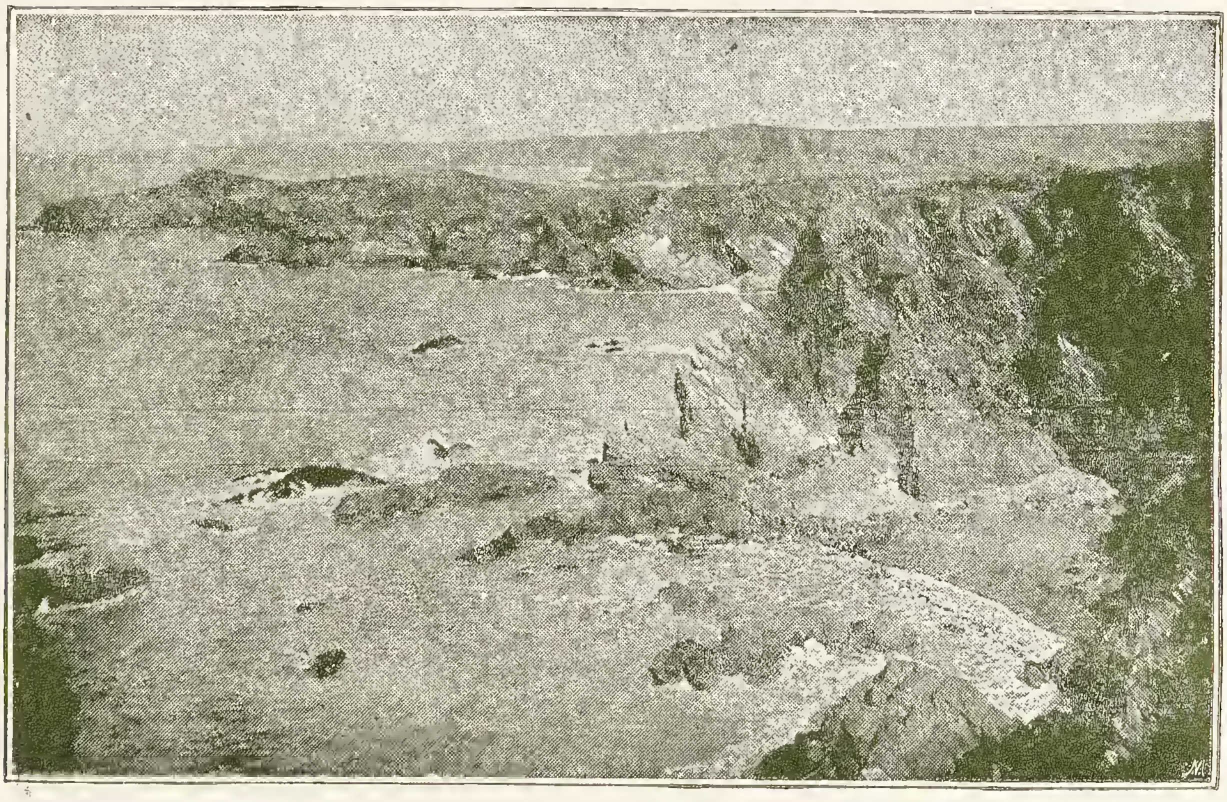


Newquay Beaches.





Cliffs, Newquay.



PORTH ISLAND.

OLD MILL, MAWGAN

Annual Report of Medical Officer of Health for 1904, for the Urban District of Newquay.

Factories, Workshops, Laundries, Workplaces & Homework.

1.—INSPECTION.

Including Inspections made by Sanitary Inspector.

Premises.	Number of Inspections.	Number of Written Notices.
Factories (including Factory Laundries). ...	6	1
Workshops (including Workshop Laundries). ...	38	1
Workplaces	15	0
Homeworkers' Premises	0	0
Total	59	2

2.—DEFECTS FOUND.

Particulars.	Number of Defects. Found.	Number of Defects. Remedied.
Nuisances under the Public Health Acts:—		
Want of Cleanliness	2	2
Want of Ventilation	3	3
Overcrowding	1	1
Sanitary accommodations, not separate for sexes	1	1
Total	7	7

Total No. of Workshops on the Register		40
Including	Laundries	1
	Bakeries	3
	Workshop and Workplaces	36

A. HARDWICK, M.D.,
Medical Officer of Health.

Newquay Climatological Station.

Lat. 50° 25′ N.   Long. 5° 5′ W.

ANNUAL REPORT

OF THE

METEOROLOGICAL OBSERVATIONS for 1904.

To the Newquay Urban District Council.

Gentlemen,

I have pleasure in presenting my Second Annual Report containing the Daily Meteorological Observations for 1904, and the average results for the past 12 years.

Taking the year as a whole the temperature was below the average, July being the only month notably above. The amount of Sunshine recorded by the Instrument was also below, and the rainfall was probably below the average also.

Taking the year in detail the chief features have been :—

The coldest month was March, the temperature being also much below the average for that month.

There was a great deficiency of Sunshine in May.

The highest temperature for the year—81·6—has only been exceeded in the years 1893, 1895, and 1899.

The Autumn was as a whole very dry; and particularly there was no rain at all from the evening of October 23rd to the morning of November 7th, a very unusual occurrence at that time of year.

There were some notably heavy dews in October.

Snow fell very early on Nov. 23rd and 24th.

November was a very calm month, there being no less than 13 mornings noted as calm.

There was a tidal wave on February 2nd, which did some damage.

A slight earthquake was felt by some persons on March 3rd.

The year was rather free from storms; but a sudden one on April 13th caused 32 mackeral boats to run to our Harbour for shelter shewing the suitability of Newquay as a site for the harbour of refuge.

As the Rain-guage on the Island Estate during the Spring had been repeatedly interfered with, in the beginning of May, by kind permission of the Waterworks Company, I set up another Rain-guage on the Mount Wise Reservoir; the usefulness of this was immediately shown, for about a week later the old Gauge was very badly damaged; after it had been repaired I discovered a leak in it, probably an old standing one, and one of the causes of the low Rainfall Returns of the preceding year or two. At my suggestion an iron fence was erected round the old Guage, and since then there has been practically no more meddling.

The Instruments were inspected in July and August by Inspectors from the Royal Meteorological Society and the Meteorological Office, and were found to be in good order, and, at present, properly exposed.

I am, Gentlemen,
Yours faithfully,
C. C. VIGURS,
Hon. Meteorologist.

TEMPERATURES etc. in Stevenson Screen for 1904.

TAKEN AT 9 A.M. (LOCAL TIME).

	At 9 a.m. (*means*).				Maximum.				Minimum.							
1904.	Dry Bulb.	Wet Bulb.	Relative Humidity.	Cloud. 0 to 10	*Mean.*	Difference from Average.	Highest.	Date.	*Mean.*	Differ ence from Average.	Lowest.	Date.	*Mean of* Max. and Min.	Difference from Average.	*Mean* Range.	Difference from Average.
	°	°	%		°	°	°		°	°	°		°	°	°	°
Jan.	44·2	42·8	88	6·6	48·0	+0·8	52·9	12-13th	40·2	0·0	30·7	23rd	44·1	+0·4	7·8	+0·9
Feb.	43·1	41·1	84	7·4	46·6	—0·6	52·4	12th	39·3	0·0	29·1	29th	43·0	—0·3	7·3	—0·6
March	43·0	40.9	84	6·6	47·1	—2·4	52·3	8th	38·4	—2·6	30·7	1st	42·7	—2·6	8·7	+0·2
April	48·4	46·0	82	6·3	51·2	—2·9	54·9	17th	44·8	+0·7	39·1	17th	48·0	—0.7	6.4	—2·7
May	52·1	50·2	86	7·6	56·2	—0·7	66·3	30th	47·1	—0·1	38·0	9th	51·6	—0·4	9·1	—0·5
June	57·0	54·6	84	5·9	60·6	—1·9	68·7	29th	51·0	—1·8	45·3	10th	55·8	—1·8	9·6	—0·1
July	63·3	59.6	79	6·0	67·4	+2·4	81·6	10th	56·5	+0·3	49·6	8th	62·0	+1·5	10·9	+1·9
Aug.	61·3	57·7	79	6·4	64·6	—1·1	75·4	29th	55·5	—1·0	48·1	21st	60·1	—1·0	9·1	—0·4
Sep.	58·5	55·4	81	5·0	61·8	—1·7	66·3	17-18th	52·4	—1·5	44·0	22nd	57·1	—1·6	9·4	—0·2
October	54·2	52·3	88	7·4	57·2	+0·1	61·2	19th	49·6	+0·6	42·1	26th	53·4	+0·3	7·6	—0·7
Nov.	47·3	45·3	85	7·2	51·9	—0·7	57·9	7th	43·2	—1·2	28·8	24th	47·6	—0·9	8·7	+0·5
Dec.	47·1	45·8	90	7·4	50·6	+0·7	55·6	4th	43·4	+1·1	36·1	27th	47·0	+1·0	7·1	—0·4
Year	51·6	49·3	84	6·6	55·3	—0·6	81·6	July 10	46·8	—0·4	28·8	Nov. 24	51·0	—0·5	8·5	—0·1

BRIGHT SUNSHINE, 1904.

Month.	Total Possible Hours.	Actual Hours	Difference from Average	Percentage of Possible.	Mean Daily Amount	Greatest daily Amount.	Date of Greatest Amount.	No. of days of Bright Sunshine.
January	260	40·9	—12·8	16	1·32	6·8	22nd	13
February	287	45·3	—35·0	16	1·56	6·8	22nd	19
March	364	115·6	—23·4	32	3·73	9.9	23rd	23
April	410	166·0	—8·4	41	5·50	12.4	25th	27
May	475	148·3	—71·0	31	4·78	12·8	18th	27
June	486	233·3	+6·7	48	7·77	14·8	4th & 27th	28
July	487	215·7	+1·8	44	6·96	14·4	30th	29
August	443	220·8	+13·2	50	7·12	13·5	1st	30
September	373	165·7	+10·5	44	5·51	10·7	20th	29
October	327	103·8	—10·6	32	3·35	8·9	25th	22
November	264	75·9	+1·9	29	2·53	7.8	14th	26
December	241	42·9	—7·1	18	1·38	6·0	21st	22
Year	4417	1574·2	—134·2	36	4·30	14·8	June 4th & 7th.	295

A Day with Bright Sunshine is one in which 3 minutes or more Sunshine has been recorded by the Instrument (a Campbell-Stokes Recorder).

RAINFALL, 1904 (unreliable 'till May).

	Island Estate Guage.						Reservoir Guage.
Month.	Total Fall Inches.	Difference from Average.	Number of Rainy Days.	Mean Rate of Rainy Day's Fall.	Greatest Fall in 24 hours.	Date of Greatest Fall.	Total Fall.
January ...							
February ...							
March ...							
April ...							
May ...		+0·85	16	0·14	0·51	23rd	2·28
June ...		—0·62	9	0·13	0·30	7th	1·14
July ...		+1·43	19	0·19	0·98	25th	3·53
August ...	2·15	—0·21	16	0·13	0·50	16th	2·44
September ...	2·16	—0·67	14	0·16	0·57	6th	2·31
October ...	2·18	—1·61	16	0·14	0·50	15th	2·56
November ...	2·25	—1·48	15	0·15	0·42	23rd	2·59
December ...	3·42	—1·47	21	0·16	0·58	5th	3·85

A "Rainy Day" is one on which ·01 inch or more rain falls.

BAROMETER AND WEATHER IN 1904.

Barometer, corrected and reduced.					Number of days on which there was observed						
Month.	Mean.	Highest Observed.	Lowest Observed.	Observed Extreme Range.	Thunder or (and) Lightening	Fog or Mist	Hail.	Snow.	Gales.	Hoar or black frost.	Nights below 32° in screen.
January	29·926	30·732	29·156	1·576	1	1	3	...	3	2	1
February	29·572	30·255	28·678	1·577	2	2	5	1	2	1	1
March	29·964	30·415	29·223	1·192	1	2	3	1	...	2	2
April	30·005	30.309	29·281	1·028	1	3	...	...	2	...	...
May	29·950	30·234	29·463	0·771	1	8	1	1	...	...	...
June	30·052	30·434	29·562	0·872	...	...	...	...	...	...	...
July	30·002	30·261	29·615	0·646	2	3	...	...	...	...	...
August	30·035	30·249	29·717	0·532	1	3	...	...	...	...	...
September	30·015	30·210	29·597	0·613	1	1	1	...	...	...	...
October	30·103	30·410	29·663	0·747	...	5	...	...	1	...	...
November	30·106	30·500	29·571	0·929	1	2	3	2	1	1	1
December	29·920	30·520	28·882	1·638	1	2	1	...	1	...	...
Year ...	29·971	30·732	28·678	2·054	12	32	17	5	10	6	5

AVERAGES OF MEAN MONTHLY TEMPERATURES, ETC.

12 Years, 1893 to 1904.

Month.	9 a.m.									
	Dry Bulb.	Wet Bulb.	Humidity	Cloud 0 to 10.	Mean Maximum	Mean Minimum	Range.	Mean of Maximum and Minimum	Hours of Sunshine.	Rainfall '93 to 02.
	°	°	%		°	°	°	°		ins.
January	44·0	42·3	86	7·0	47·3	40·2	7·0	43·8	56·3	3·53
February	43·8	41·1	86	6·7	47·2	39·3	7·8	43·2	80·9	2·62
March	46·0	44·1	86	6·5	49·3	40·8	8·6	45·1	136·0	2-20
April	49·7	47·3	84	6·2	54·0	44·2	8·9	48·6	174·8	2·24
May	53·2	50·7	84	5·7	56·8	47·2	9·6	52·0	236·6	1·43
June	58·7	55·6	81	6·0	62·4	52·6	9·7	57·4	222·9	1·76
July	61·9	59·2	83	6·2	65·2	56·2	9·2	60·6	217·6	2·07
August	62·3	59·2	82	6·1	65·6	56·4	9·2	61·0	211·0	2·36
September	60·0	57·0	81	5·7	63·4	53·8	9·6	58·6	169·0	2·83
October	54·2	51·9	85	6·8	57·2	49·0	8·2	53·1	106·9	3·79
November	49·2	47·2	85	6·4	52·5	44·3	8·2	48·4	76·4	3·73
December	46·6	45·0	88	7·4	49·9	42·4	7·5	46·1	46·5	4·89

Humidity or Relative Humidity is the percentage of saturation of the Air with Water Vapour.

AVERAGE WINTER AND SUMMER TEMPERATURES, ETC.

Averages of 12 Years, 1893 to 1904.

		9 a.m.									
		Dry Bulb	Wet Bulb	Humidity	Cloud 0 to 10	Mean Maximum	Mean Minimum	Mean Range	Mean of M'x & Min	Mean D'ly Sunshine	Mean Rainfall
		°	°	%		°	°	°	°	hrs.	ins.
Winter Months	October to March	47·3	45·2	86	6·8	50·5	42·6	7·9	46·6	2·9	20·76
Summer Months	April to Sept.	57·6	54·8	82	6·0	61·2	51·7	9·4	56·4	6·9	12·69

METEOROLOGICAL MEANS AND TOTALS.

12 Years, 1893 to 1904.

	9 a.m.												
	Mean Dry Bulb	Mean Wet Bulb	Mean Humidity	Mean Maximum	Mean Minimum	Mean Range	Mean	Maximum Highest	Minimum Lowest	Mean Cloud	Total Rainfall Inches	To'l hours of Bright Sunshine	Mean Barometer Inches
1893	53·5	50·7	81	57·2	47·6	9·6	52·4	82.6	23·0	6·3	29·60	2020	29·95
1894	52·3	50·3	86	55·4	47·0	8·4	51·2	76·3	19·2	6·5	39·87	1755	29·91
1895	51·4	48·9	83	54·8	45·3	9·5	50·0	82·9	19·0	6·2	35·42	1896	29·91
1896	52·7	50·3	84	55·6	47·3	8·3	51·4	80·0	28·8	6·4	29·11	1791	30·03
1897	52·8	50·4	84	56·0	47·9	8·1	51·9	77·6	27·9	6·4	39·80	1645	29.94
1898	53·6	51·0	86	56·7	48·7	8·0	52·7	79·0	32·9	6·5	27·83	1742	29·99
1899	53·6	51·1	84	57·3	48·1	9·2	52·7	82·5	28·0	6·0	34·78	1900	30·01
1900	52·6	50·3	85	55·8	74·2	8·6	51·5	76·9	26·7	6·3	40·26	1724	29·91
1901	51·9	49·5	83	55·6	46·5	9·0	51·0	81·3	25·6	6·3	30·34	1696	29·90
1902	51·5	49·5	86	54·8	46·6	8·2	50·7	79·3	27·0	6·6	27·64	1460	29·94
1903	51·9	50·0	86	55·2	47·5	7·7	51·3	74·9	25·7	6·6	...	1610	29·81
1904	51·6	49·3	84	55·3	46·8	8·5	51·0	81·6	28·8	6·6	...	1574	29·97
Average 12 years	52·5	50·1	84	55·8	47·2	8·6	51·5			6·4		Daily av. 4.7 hours	

RAINFALL FOR 10 YEARS—1893 TO 1902.

Year.	Total Fall Inches.	Total No. of Rainy Days.	Mean Rate of Fall for Rainy Days.	Greatest Fall in 24 hours.	Date of Greatest Fall.
1893	29·6	175	0·17	1·24	July 4th
1894	39·9	216	0·18	2·13	November 11th
1895	35·4	186	0·19	1·19	October 8th
1896	29·1	189	0·15	1·05	September 21st
1897	39·8	194	0·20	1·21	September 30th
1898	27·8	178	0·16	1·35	November 27th
1899	34·8	176	0·19	1·23	Feb. 5th & Sep. 29th
1900	40·3	207	0·19	1·29	February 14th
1901	30·3	175	0·17	1·39	January 18th
1902	27·6	171	0·17	1·85	September 22nd
Average for 10 years	33·5	186	0·17	2·13	November 11th, 1894.

N.B.—The Rainfall is registered by a Snowdon Rain Gauge, 5 inches in diameter, placed 1 foot above the ground and 100 feet above sea-level.

Comparative Statistics between Newquay and Foreign Health Resorts.

I. MEAN TEMPERATURE.

Place.	Latitude	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Year	Diff. of hottest and coldest month.
Newquay ...	50° 25′	43·6	42·9	45·1	48·9	52·	57·8	60·6	61·3	58.8	53.0	48·5	46·3	51·3	18·4
Nice (Obs.) ...	43° 43′	42·4	43·9	47·5	53·1	58·8	66·2	70·3	69·8	65·8	57·9	50·4	44·6	55·8	27·9
Montpellier...	43° 37′	40·3	42·8	48·6	55	61·7	69·1	73	71·6	66·2	56·5	50·4	42·1	56.5	32·7
Algiers ...	36° 47′	53·4	55	57·9	61·3	65.5	71·8	77·2	76·6	74·8	68·4	62·2	56·3	64·9	23·8
Madeira ...	32° 38′	59·9	58·8	59·7	61·2	63·7	67·3	70·7	72·1	71·4	68·4	64·6	60·8	64·9	13·3

II. MEAN DAILY RANGE OF TEMPERATURE.

Place	Latitude	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Year	Diff. of greatest and least range.
Newquay ...	50° 25′	7·0	8·0	8·6	9·2	9·6	9·8	9·	9·4	9·8	8·4	8.4	7·6	8·7	2·8
Nice (Obs). ...	43° 43′	12·8	14·4	15·5	16·7	16·2	17·1	18·9	18·3	17·3	14·4	12·6	12·6	15·5	6·3
Montpellier...	43″ 37′	17·1	21·2	22·5	24·	24·6	26·	26·7	27·	25·9	21·6	17·7	18·2	22·7	9·9
Algiers ...	36° 47′	12·4	13·	13·3	13·5	13·7	14·6	15·1	13·9	13·5	13·7	12·6	11·8	13·4	3·4
Madeira ...	32° 38′	11·9	12·6	12·1	12·	11·7	11·5	11·3	11·9	12·1	12·	12·6	12·4	12·	1·3

N.B. Nice, Montpellier and Algiers means for 10 years, 1888-1897. Madeira (Funchal) 10 years 1881-1890. (from "Cornwall as a Winter Resort" by E. Kitto. NEWQUAY, 10 years, 1893-1902.